

CLAIMS

What is claimed is:

1. A notebook computer comprising:

a computer main body having a first connection port to which electric power is supplied from outside the computer main body;

a docking station having a second connection port to which electric power is supplied from outside the docking station, wherein the docking station and the computer main body are electrically connected through a connector; and

an AC/DC adapter connected to one of the first connection port of the computer main body and the second connection port of the docking station to supply DC power, the AC/DC adapter comprising:

an adapter main body converting AC power into DC power;

a DC power cable connected to the adapter main body;

a power supplying jack provided at an end of the DC power cable and connected to one of the first connection port of the computer main body and the second connection port of the docking station to supply DC power therethrough;

a grounding cable branched off from the DC power cable and forming a grounding path; and

a grounding jack provided at an end of the grounding cable and connected to the other one of the first connection port of the computer main body and the second connection port of the docking station to connect the grounding cable and one of the grounding areas of the computer main body and the docking station to each other.

2. The notebook computer according to claim 1, wherein the power supplying jack comprises: a power supplying terminal to supply DC power supplied through the DC power cable to an electronic device; and a first grounding terminal disposed concentrically with and apart from the power supplying terminal, and

the grounding jack comprises a second grounding terminal having the same cross section and same size as those of the first grounding jack.

3. An AC/DC power supply adapter for a portable device and a docking station that interfaces with the portable device, the adapter comprising:

 a base adapted to convert an AC power input into DC power;
 a power cable connected to the base and terminating at another end in a power supplying jack; and

 a grounding cable connected to the power cable and terminating at another end in a grounding jack;

 wherein the power supplying jack is connectable to one of the portable device and the docking station, and the grounding jack is connectable to the other one of the portable device and docking station to supply a ground path other than through the power supplying jack.

4. The AC/DC power supply adapter as in claim 3, wherein the power supplying jack includes a terminal for supplying DC power and a tubular grounding conductor coaxial with the terminal.

5. The AC/DC power supply adapter as in claim 4, wherein the grounding jack includes a tubular grounding conductor.

6. The AC/DC power supply adapter as in claim 5, wherein the power supplying jack and the grounding jack have the same dimensions.

7. The AC/DC power supply adapter as in claim 3, wherein the grounding jack and the power supplying jack are not tubular shaped.

8. The AC/DC power supply adapter as in claim 3, wherein the grounding jack has a grounding conductor and no power supply terminal.

9. An AC/DC power supply adapter comprising:
 a base unit adapted to convert AC power into DC power;
 a power cable extending from the base unit and terminating in a power supplying jack so as to provide a power supply path and a first ground path; and
 a grounding cable splitting off from the power cable and terminating in a grounding jack so as to supply a second ground path other than the first ground path.

10. The AC/DC power supply adapter as in claim 9, wherein the power supplying jack includes a terminal for supplying DC power and a tubular grounding conductor coaxial with the terminal.

11. The AC/DC power supply adapter as in claim 10, wherein the grounding jack includes a tubular grounding conductor.

12. The AC/DC power supply adapter as in claim 11, wherein the power supplying jack and the grounding jack have the same dimensions.

13. The AC/DC power supply adapter as in claim 9, wherein the grounding jack has a grounding conductor and no power supply terminal.

14. The AC/DC power supply adapter as in claim 9, wherein the grounding jack and the power supplying jack are non tubular shaped.